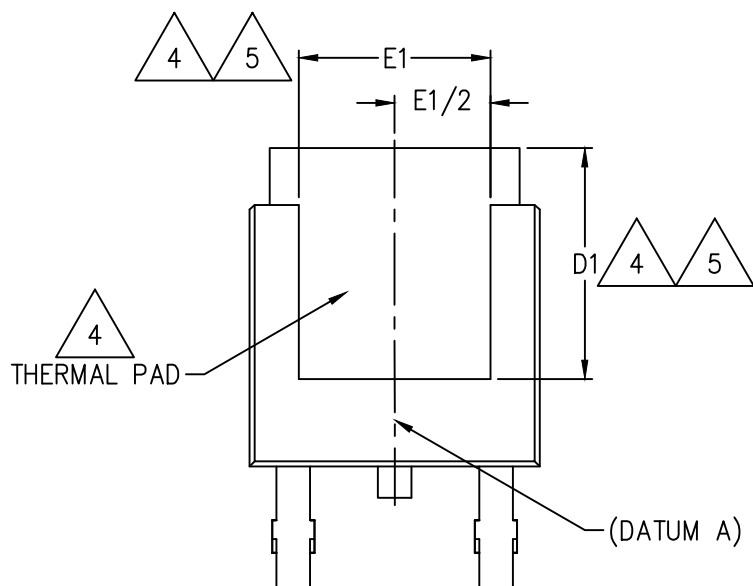


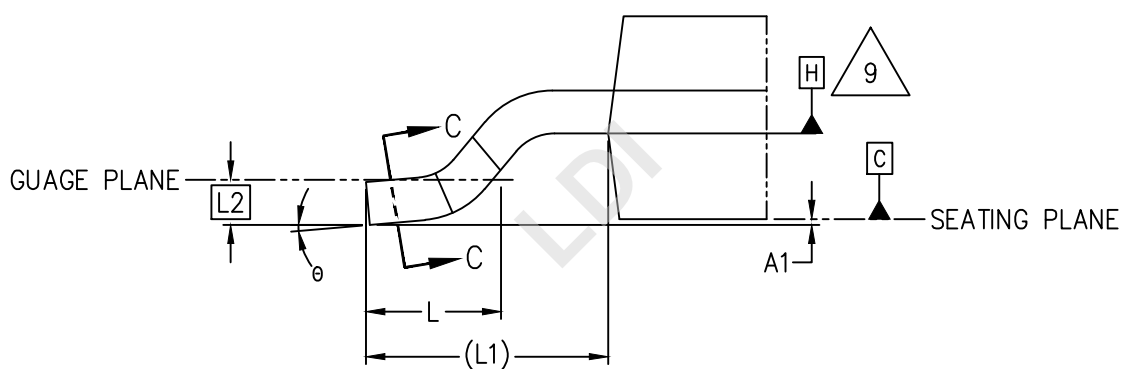
JEDEC SOLID STATE
PRODUCT OUTLINE
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THIS *REGISTERED OUTLINE* HAS BEEN PREPARED BY THE JEDEC JC-11 COMMITTEE AND REFLECTS A PRODUCT WITH ANTICIPATED USAGE IN THE ELECTRONICS INDUSTRY; CHANGES ARE LIKELY TO OCCUR.

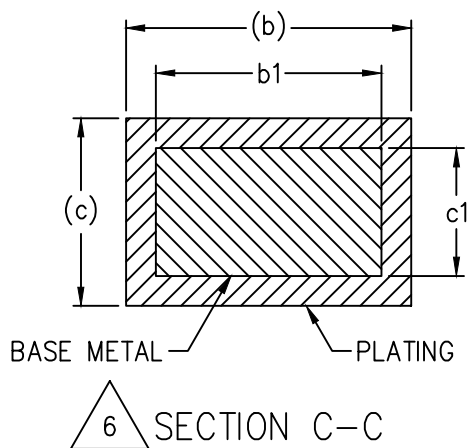
TITLE	PACKAGE DESIGNATOR	NUMBER	ISSUE	DATE	SHEET
FLANGE MOUNTED FAMILY SURFACE MOUNT (PERIPHERAL TERMINALS)	R-PSFM-G	TO-252	F	JAN 2017	1 OF 8



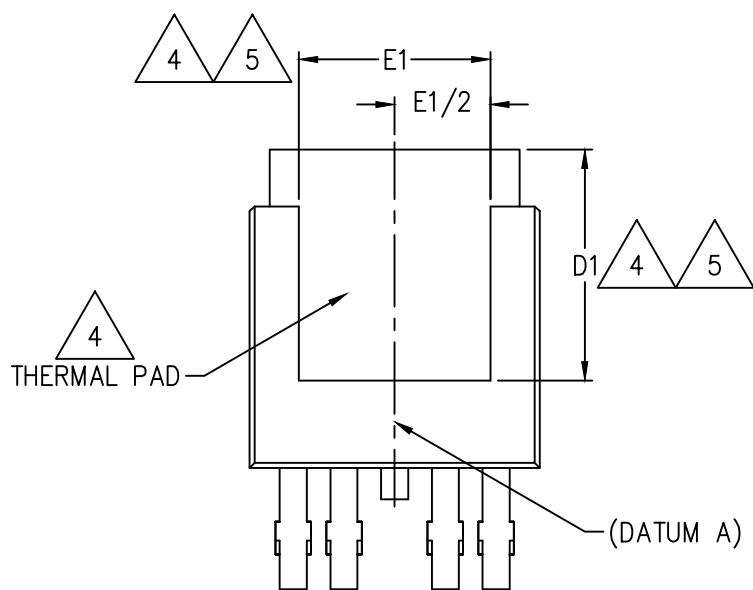
VIEW A-A



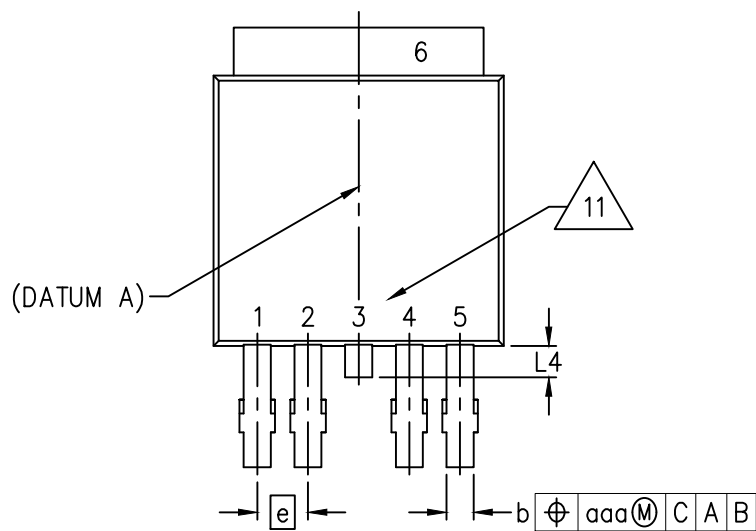
DETAIL B
ROTATED 90° CW



SECTION C-C



VIEW A-A
VARIATION AD



VARIATION AD

TABLE 1

VARIATIONS (ALL DIMENSIONS SHOWN IN INCHES)												
SYMBOL	AA			NOTES	AB			NOTES	AC			NOTES
	MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX	
A	0.086	—	0.094		0.086	—	0.094		0.070	—	0.080	
A1	—	—	0.005		—	—	0.005		0.000	0.002	0.005	
b	0.025	—	0.035	6	0.025	—	0.035	6	0.025	—	0.035	6
b1	0.025	0.028	0.031	6	0.025	0.028	0.031	6,10	0.025	0.028	0.031	6
b2	0.030	—	0.045		0.030	—	0.045		0.025	—	0.035	
b3	0.195	—	0.215	4	0.195	—	0.215	4	0.218	0.223	0.228	4
c	0.018	—	0.024	6	0.018	—	0.024	6	0.007	—	0.015	6
c1	0.016	—	0.022	6	0.016	—	0.022	6,10	0.007	0.010	0.013	6
c2	0.018	—	0.035	6	0.018	—	0.035	6	0.007	—	0.015	6
D	0.235	0.240	0.245	7,8	0.210	0.215	0.220	7,8	0.237	0.242	0.247	7, 8
D1	0.205	—	—	4,5	0.180	—	—	4,5	0.160	—	—	4, 5
E	0.250	—	0.265	7,8	0.250	—	0.265	7,8	0.233	—	0.243	7, 8
E1	0.170	—	—	4,5	0.150	—	—	4,5	0.080	—	—	4, 5
e	0.090 BSC				0.090 BSC				0.090 BSC			
H	0.370	—	0.410		0.370	—	0.410		0.370	—	0.390	
L	0.055	0.060	0.070		0.055	0.060	0.070		0.037	0.042	0.047	
L1	0.108 REF				0.105 REF				0.098 REF			
L2	0.020 BSC				0.020 BSC				0.010 BSC			
L3	0.035	—	0.050	4	0.060	—	0.080	4	0.030	—	0.050	4
L4	—	—	0.040		—	—	0.040		—	—	0.040	
L5	0.045	—	0.060	3	0.045	—	0.060	3	NA	NA	NA	
θ	0°	—	10°		0°	—	8°		0°	—	8°	
θ1	0°	—	15°		0°	—	15°		0°	—	15°	
N	3				3				3			10
aaa	0.010				0.010				0.010			
NOTES	1, 2				1, 2				1, 2			
REF	10–418				10–418				10–418			
ISSUE	D				D				D			

TABLE 2

VARIATIONS (ALL DIMENSIONS SHOWN IN INCHES)								
SYMBOL	AD			NOTES	AE			NOTES
	MIN	NOM	MAX		MIN	NOM	MAX	
A	0.086	—	0.094		0.047	—	0.055	
A1	—	—	0.005		0.000	—	0.008	
b	0.020	—	0.028	6	0.027	—	0.036	6
b1	0.020	0.023	0.026	6	0.027	0.030	0.033	6
b2	0.024	—	0.031		0.027	—	0.040	
b3	0.170	—	0.215	4	0.209	0.217	0.224	4
c	0.018	—	0.024	6	0.010	—	0.016	6
c1	0.016	—	0.022	6	0.010	0.012	0.014	6
c2	0.018	—	0.035	6	0.010	—	0.016	6
D	0.235	0.240	0.245	7,8	0.255	0.260	0.265	7, 8
D1	0.190	—	—	4,5	—	0.205	—	4, 5
E	0.250	—	0.265	7,8	0.239	—	0.249	7, 8
E1	0.170	—	0.210	4,5	0.201	—	0.224	4, 5
e	0.045 BSC				0.090 BSC			
H	0.370	—	0.410		0.339	—	0.370	
L	0.055	0.060	0.070		0.039	0.047	0.055	
L1	0.108 REF				0.075 REF			
L2	0.020 BSC				0.010 BSC			
L3	0.035	—	0.050	4	0.012	—	0.028	4
L4	—	—	0.040		—	—	0.030	
L5	NA	NA	NA		NA	NA	NA	
Ø	0°	—	10°		0°	—	10°	
Ø1	0°	—	15°		0°	—	15°	
N	5			11	3			10
aaa	0.010				0.010			
NOTES	1, 2				1, 2			
REF	10–427				10–456			
ISSUE	E				F			

TABLE 3

VARIATIONS (ALL DIMENSIONS SHOWN IN MILLIMETERS)												
SYMBOL	AA			NOTES	AB			NOTES	AC			NOTES
	MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX	
A	2.184	—	2.388		2.184	—	2.388		1.778	—	2.032	
A1	—	—	0.127		—	—	0.127		0.000	0.051	0.127	
b	0.635	—	0.889	6	0.635	—	0.889	6	0.635	—	0.889	6
b1	0.635	0.711	0.787	6	0.635	0.711	0.787	6,10	0.635	0.711	0.787	6
b2	0.762	—	1.143		0.762	—	1.143		0.635	—	0.889	
b3	4.953	—	5.461	4	4.953	—	5.461	4	5.537	5.664	5.791	4
c	0.457	—	0.610	6	0.457	—	0.610	6	0.178	—	0.381	6
c1	0.406	—	0.559	6	0.406	—	0.559	6,10	0.178	0.254	0.330	6
c2	0.457	—	0.889	6	0.457	—	0.889	6	0.178	—	0.381	6
D	5.969	6.096	6.223	7,8	5.334	5.461	5.588	7,8	6.020	6.147	6.274	7, 8
D1	5.207	—	—	4,5	4.572	—	—	4,5	4.064	—	—	4, 5
E	6.350	—	6.731	7,8	6.350	—	6.731	7,8	5.918	—	6.172	7, 8
E1	4.318	—	—	4,5	3.810	—	—	4,5	2.032	—	—	4, 5
e	2.286 BSC				2.286 BSC				2.286 BSC			
H	9.398	—	10.41 4		9.398	—	10.41 4		9.398	—	9.906	
L	1.397	1.524	1.778		1.397	1.524	1.778		0.940	1.067	1.194	
L1	2.743 REF				2.667 REF				2.489 REF			
L2	0.508 BSC				0.508 BSC				0.254 BSC			
L3	0.889	—	1.270	4	1.524	—	2.032	4	0.762	—	1.270	4
L4	—	—	1.016		—	—	1.016		—	—	1.016	
L5	1.143	—	1.524	3	1.143	—	1.524	3	NA	NA	NA	
θ	0°	—	10°		0°	—	8°		0°	—	8°	
θ1	0°	—	15°		0°	—	15°		0°	—	15°	
N	3				3				3			10
aaa	0.254				0.254				0.254			
NOTES	1, 2				1, 2				1, 2			
REF	10–456				10–456				10–456			
ISSUE	F				F				F			

TABLE 4

VARIATIONS (ALL DIMENSIONS SHOWN IN MILLIMETERS)								
SYMBOL	AD			NOTES	AE			NOTES
	MIN	NOM	MAX		MIN	NOM	MAX	
A	2.184	—	2.388		1.200	—	1.400	
A1	—	—	0.127		0.000	—	0.200	
b	0.508	—	0.711	6	0.685	—	0.910	6
b1	0.508	0.584	0.660	6	0.685	0.762	0.840	6
b2	0.610	—	0.787		0.685	—	1.010	
b3	4.318	—	5.461	4	5.300	—	5.700	4
c	0.457	—	0.610	6	0.250	—	0.410	6
c1	0.406	—	0.559	6	0.250	0.300	0.350	6
c2	0.457	—	0.889	6	0.250	—	0.410	6
D	5.969	6.096	6.223	7,8	6.480	6.600	6.720	7, 8
D1	4.826	—	—	4,5	—	5.200	—	4, 5
E	6.350	—	6.731	7,8	6.080	—	6.320	7, 8
E1	4.318	—	5.334	4,5	5.100	—	5.700	4, 5
e	1.143 BSC				2.290 BSC			
H	9.398	—	10.41 4		8.600	—	9.400	
L	1.397	1.524	1.778		1.000	—	1.400	
L1	2.743 REF				1.900 REF			
L2	0.508 BSC				0.254 BSC			
L3	0.889	—	1.270	4	0.300	—	0.700	4
L4	—	—	1.016		—	—	0.762	
L5	NA	NA	NA		NA	NA	NA	
θ	0°	—	10°		0°	—	10°	
θ1	0°	—	15°		0°	—	15°	
N	5			11	3			10
aaa	0.254				0.254			
NOTES	1, 2				1, 2			
REF	10–456				10–456			
ISSUE	F				F			

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5–2009.

2. DIMENSIONS ARE IN INCHES AND MILLIMETERS.



LEAD DIMENSION UNCONTROLLED IN L5.



THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSIONS b3 AND L3, AND D1 AND E1.



DIMENSIONS D1 AND E1 ESTABLISH A MINIMUM MOUNTING SURFACE FOR THERMAL PAD.



SECTION C–C DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.005 AND 0.010 INCHES FROM THE LEAD TIP.



DIMENSION D DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.006 INCHES PER END.
DIMENSION E DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH, PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED 0.006 INCHES PER SIDE.



THE PACKAGE TOP MAY BE SMALLER THAN THE PACKAGE BOTTOM. DIMENSIONS D AND E ARE DETERMINED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY EXCLUSIVE OF MOLD FLASH, TIE BAR BURRS, GATE BURRS AND INTERLEAD FLASH, BUT INCLUDING ANY MISMATCH BETWEEN THE TOP AND BOTTOM OF THE PLASTIC BODY.



DATUMS A AND B TO BE DETERMINED AT DATUM PLANE H.



4 TERMINAL LOCATIONS ARE SHOWN, ONLY 3 ARE FUNCTIONAL, LEAD NUMBER 2 WAS REMOVED.



6 TERMINAL LOCATIONS ARE SHOWN, ONLY 5 ARE FUNCTIONAL, LEAD NUMBER 3 WAS REMOVED.

CHANGE RECORD

IF THE CHANGE INVOLVES ANY WORDS ADDED OR DELETED (EXCLUDING DELETION OF ACCIDENTALLY REPEATED WORDS), THE CHANGE IS TO BE INCLUDED BELOW. PUNCTUATION CHANGES MAY OR MAY NOT BE INCLUDED.

INITIAL ISSUE: A	DATE: SEPTEMBER 1996	ITEM NUMBER: 10-209
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CHANGE RECORD HISTORY:

ISSUE: D	DATE: JUNE 2002	ITEM NUMBER: 10-418
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ISSUE: E	DATE: JUNE 2004	ITEM NUMBER: 10-427
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ISSUE: F	DATE: JANUARY 2017	ITEM NUMBER: 10-456
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LOCATION:	CHANGED FORM:	CHANGED TO:
ALL SHEETS		UPDATED TO CURRENT FORMAT
ALL SHEETS	MISSING LEADING ZERO (E.G. .000)	ADDED LEADING ZERO (E.G. 0.000)
SHEET 1, 3		DELETE THE NUMBER OF TERMINALS (E.G. 3X b, 2X b2)
SHEET 4 - 5		ADD DIMENSION aaa
SHEET 5		ADDED VARIATION AE
SHEET 6 - 7		ADDED DIMENSION TABLES IN MILLIMETERS
SHEET 8, NOTE 1	... ASME Y14.5M-1994	... ASME Y14.5M-2009
SHEET 8, NOTE 2		ADDED MILLIMETERS
SHEET i		ADDED CHANGE RECORD SHEET